

**EXHIBIT 4**

International Cosmetic Ingredient Dictionary  
and Handbook (“CTFA”) 9<sup>th</sup> ed., p. 1654 (2002).

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# **International Cosmetic Ingredient Dictionary and Handbook**

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CTFA

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## Stearyl Acetate (Cont.)

**Function:** Skin-Conditioning Agent - Emollient

**Technical/Other Name:**

Acetic Acid, Octadecyl Ester

**Trade Name:**

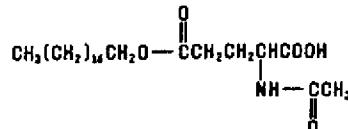
AEC Stearyl Acetate (A & E Connock)

## STEARYL ACETYL GLUTAMATE

**Empirical Formula:**

$C_{26}H_{47}NO_5$

**Definition:** Stearyl Acetyl Glutamate is the substituted amino acid that conforms to the formula:



**Information Sources:** JCIC, JCLS

**Chemical Classes:** Amides; Amino Acids; Esters

**Function:** Skin-Conditioning Agent - Miscellaneous

**Technical/Other Name:**

Stearyl N-Acetyl-L-Glutamate

## STEARYL ACETYL GLUTAMINATE

**Definition:** Stearyl Acetyl Glutaminate is the ester of stearyl alcohol and Acetyl Glutamine (q.v.).

**Chemical Classes:** Amino Acids; Esters

**Functions:** Humectant; Skin-Conditioning Agent - Emollient

**Technical/Other Name:**

N-Acetyl Glutamine, Stearyl Ester

**Trade Name:**

NAGS (Kyowa Hakko Kogyo)

## STEARYL ALCOHOL

**CAS No.** EINECS No.

112-92-5 204-017-6

**Empirical Formula:**

$C_{18}H_{38}O$

**Definition:** Stearyl Alcohol is the fatty alcohol that conforms generally to the formula:



**Information Sources:** AUS, 21CFR172.755, 21CFR172.864, 21CFR175.105, 21CFR175.300, 21CFR176.200, 21CFR176.210, 21CFR177.1010, 21CFR177.1200, 21CFR177.2800, 21CFR178.3480, 21CFR178.3910, CIR: [S] JACT-4(5)1985, CTFA S, DDR, ITA, JAN, JCLS, JSCI, KOR, MI-12(8960), NF XIX, SNPF, TSCA, USAN, USD

**Chemical Classes:** Fatty Alcohols; Sulfonic Acids

**Functions:** Emulsion Stabilizer; Surfactant - Emulsifying Agent; Surfactant - Foam Booster; Viscosity Increasing Agent - Aqueous; Viscosity Increasing Agent - Nonaqueous

**Reported Product Categories:** Hair Dyes and Colors (All Types Requiring Caution Statements and Patch Tests); Hair Conditioners; Moisturizing Preparations; Body and Hand Preparations (Excluding Shaving Preparations); Personal Cleanliness Products, Misc.; Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Foundations; Skin Care Preparations, Misc.; Hair Bleaches; Shampoo (Non-coloring); Face and Neck Preparations (Excluding Shaving Preparations); Indoor Tanning Preparations; Night Skin Care Preparations; Makeup Bases; Paste Masks (Mud Packs); Baby Lotions, Oils, Powders and Creams; Eye Makeup Preparations, Misc.; Deodorants (Underarm); Fragrance Preparations, Misc.; Tonics, Dressings, and Other Hair Grooming Aids; Hair Straighteners; Shaving Cream (Aerosol, Brushless and Lather); Eye Shadows; Makeup Preparations (Not eye), Misc.; Aftershave Lotions; Eye Lotions; Mascara; Hair Rinses (Non-coloring); Permanent Waves; Suntan Preparations, Misc.; Bath Soaps and Detergents; Eyeliners; Foot Powders and Sprays; Hair Coloring Preparations, Misc.; Hair Preparations (Non-coloring), Misc.; Makeup Fixatives; Suntan Gels, Creams, and Liquids

**Technical/Other Name:**

1-Octadecanol

**Trade Names:**

AEC Stearyl Alcohol (A & E Connock)

Affol 18 Alcohol (Condea Vista)

Cachalot S-56 (Michel)

CO-1895 (Procter & Gamble)

CoChem SA (Costec)

Cochem SAN (Costec)

Crodacol S-70 (Crodacol, Inc.)

Crodacol S95 (Crodacol Oleochemicals)

Crodacol S-95 (Crodacol, Inc.)

HAINOL 18SS (Kokyū Alcohol)

Hyfitol 18-95 (Aarhus)

Hyfitol 18-98 (Aarhus)

Lanette 18 (Cognis Care Chemicals/NJ)

Lanette 18 (Cognis Care Chemicals/PA)

Lanette 18 (Cognis GmbH)

Lanol S (SEPPIC)

## Stearyl Aminopropyl Methicone

Lipocol S (Lipo)

Nacol 18-94 (Condea Chemie GmbH)

Nacol 18-98 (Condea Chemie GmbH)

Nacol 18-99 (Condea Chemie GmbH)

Nikkol Stearyl Alcohol (Nikkol)

RITA SA (RITA)

Sabonal C 18 95 (Sabo)

Stearal (Amerchol)

Stearyl Alcohol NF (Jeen)

STEARYL ALCOHOL NX (Kokyū Alcohol)

Stearyl Alcohol PC (Protameen)

STEARYL ALCOHOL S (Kokyū Alcohol)

STEARYL ALCOHOL SP (Kokyū Alcohol)

Steraffine (Laserson)

Tego-Alkanol 18 (Goldschmidt)

Ultrapure S (Ultra Chemical)

Unihydag WAX-18 (Universal Preserv-A-Chem)

**Trade Name Mixtures:**

Atlas G-1875 (Uniqema Americas)

Beesilane (LCW)

Brookswax G (Brooks)

Ceral G (Fabriquimica)

Cerasynt WM (International Specialty Products)

Cremophor A6 (BASF)

Dispersen-G (Lenaetex)

Dow Corning 580 Wax (Dow Corning)

Emulgator E 2149 (Goldschmidt)

Emulgator E 2155 (Goldschmidt)

Emulsifying Wax EM0010 (Crodac Oleochemicals)

Forlan L (RITA)

Forlan LM (RITA)

Homulgator 920 G (Grau)

Homulgator 1330 G (Grau)

Homulgator 910 G Extra (Grau)

Hydro Myristenol 14082 2/014082 (Dragoco)

Incroquat BES-35 S (Crodac, Inc.)

Jeecol ST-20-G (Jeen)

Lipowax G (Lipo)

Lowenol Emulsion 270 (Lowenstein)

Miracare CT 100 (Rhodia)

Neo PCL SE o/w 2/066280 (Dragoco)

Procol ST-20-G (Protameen)

Promulgen G (Amerchol)

Prozymex HBT (Serobiologiques)

Ritapro 200 (RITA)

Sabowax CS 6 (Sabo)

Simulsol SPK (SEPPIC)

Unieucerin (Chemunion)

## STEARYL AMINOPROPYL METHICONE

CAS No.: 110720-64-4

**Definition:** Stearyl Aminopropyl Methicone is the siloxane polymer that conforms generally to the formula:

The inclusion of any compound in the *Dictionary and Handbook* does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.